B. CAMPBELL

#8
84
1/17/02

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RAW SEQUENCE LISTING              DATE: 04/19/2001
PATENT APPLICATION:  US/09/674,607   TIME: 16:39:43
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ENTERED

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        Output Set: N:\CRF3\04192001\I674607.raw

   3 <110> APPLICANT: Prashar, Yatindra
   4         Weissman, Sherman
   6 <120> TITLE OF INVENTION: A Process to Study Changes in Gene Expression in T
   7         Lymphocytes
   9 <130> FILE REFERENCE: 44921-5004-WO
  11 <140> CURRENT APPLICATION NUMBER: 09/674,607
  12 <141> CURRENT FILING DATE: 2000-11-03
  14 <150> PRIOR APPLICATION NUMBER: PCT/US99/09761
  15 <151> PRIOR FILING DATE: 1999-05-05
  18 <150> PRIOR APPLICATION NUMBER: US 60/084,329
  19 <151> PRIOR FILING DATE: 1998-05-05
  21 <160> NUMBER OF SEQ ID NOS: 44
  23 <170> SOFTWARE: PatentIn Ver. 2.0
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  27 <212> TYPE: DNA
  28 <213> ORGANISM: Homo sapiens
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  31 <221> NAME/KEY: unsure
  32 <222> LOCATION: (11), (30), (32), (231)
  33 <223> OTHER INFORMATION: n= a or c or g or t
  35 <220> FEATURE:
  36 <223> OTHER INFORMATION: Jurkat cell cDNA
  38 <400> SEQUENCE: 1
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  40 gagatggata cctctacctg acatggcctg aagatgcagg gcagaggaat tgcccatgga 120
  41 cagtgacgca aggactaggc tgggagggag cgtgccaacc ccttttgcct ctgggtttgg 180
W--> 42 ggagcggagg gcctcttctt ggtgccctgc ccccaataaa ggaactggac naagagat    238
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  45 <211> LENGTH: 174
  46 <212> TYPE: DNA
  47 <213> ORGANISM: Homo sapiens
  49 <220> FEATURE:
  50 <221> NAME/KEY: unsure
  51 <222> LOCATION: (150)
  52 <223> OTHER INFORMATION: n = a or c or g or t
  54 <220> FEATURE:
  55 <223> OTHER INFORMATION: Jurkat cell cDNA
  57 <400> SEQUENCE: 2
  58 gatctcatga tgtggctgtt gggaagatgg tggggtttgt ttgccagctt ggagtcctat 60
  59 taaatgaaag ccagcaactc atgttggtaa taggtctact gtgggaacag ttatccctaa 120
W--> 60 ccacagctca aaatcgctat catctttagn caaattaaaa tctatgtggc agcg        174
  62 <210> SEQ ID NO: 3
  63 <211> LENGTH: 175
  64 <212> TYPE: DNA
  65 <213> ORGANISM: Homo sapiens
  67 <220> FEATURE:
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    68 <223> OTHER INFORMATION: Jurkat cell cDNA
    70 <400> SEQUENCE: 3
    71 gatctggtga ctggcttttc gttctgtgtt cttggcttcc taaatttatc tgcccatatg 60
    72 attctcatgc atttgatatt tatgtttaaa agtgtttata tatgtatgta aaaagggaac 120
    73 catatgtttt gagaatttgt aaagtgagag acatgatcct attaaaataa gaagg   175
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    76 <211> LENGTH: 285
    77 <212> TYPE: DNA
    78 <213> ORGANISM: Homo sapiens
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    81 <221> NAME/KEY: unsure
    82 <222> LOCATION: (39)
    83 <223> OTHER INFORMATION: n = a or c or g or t
    85 <220> FEATURE:
    86 <223> OTHER INFORMATION: Jurkat cell cDNA
    88 <400> SEQUENCE: 4
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    90 cccaacaggt taattagtcc attaatttta gtgggacctg catatgttga aaattaccaa 120
    91 tactgactga catgtgatgc tgacctatga taaggttgag tatttattag atgggaaggg 180
    92 aaatttgggg attatttatc ctcctgggga cagtttgggg aggattattt attgtattta 240
    93 tattgaatta tgtacttttt tcaataaagt cttatttttg tggcg   285
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    96 <211> LENGTH: 182
    97 <212> TYPE: DNA
    98 <213> ORGANISM: Homo sapiens
    100 <220> FEATURE:
    101 <223> OTHER INFORMATION: Jurkat cell cDNA
    103 <220> FEATURE:
    104 <221> NAME/KEY: unsure
    105 <222> LOCATION: (33), (56), (75), (93), (105), (110), (122), (136)
    106 <223> OTHER INFORMATION: n = a or c or g or t
    108 <400> SEQUENCE: 5
W--> 109 gatctgaaac ccaggttagg catgacattt canccccaaa ccctacctca tctgtnctga 60
W--> 110 aagacgctga aactncctgg gatgttttcg ggnacaagaa tgtanatttn ccctatccct 120
W--> 111 gnacttggtt taatcnaatc aatgtgtgta ttagaataaa agtcacagca tcccaaaagc 180
    112 cg   182
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    115 <211> LENGTH: 130
    116 <212> TYPE: DNA
    117 <213> ORGANISM: Homo sapiens
    119 <220> FEATURE:
    120 <223> OTHER INFORMATION: Jurkat cell cDNA
    122 <400> SEQUENCE: 6
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    124 ataatatttg tatttatgtt cagatgttga agctgtcatt ctcgaataaa actacacttt 120
    125 agaaatggcg   130
    127 <210> SEQ ID NO: 7
    128 <211> LENGTH: 361
    129 <212> TYPE: DNA

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    133 <221> NAME/KEY: unsure
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    135 <223> OTHER INFORMATION: n = a or c or g or t
    137 <220> FEATURE:
    138 <223> OTHER INFORMATION: Jurkat cell cDNA
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    141 gatctttcga ggccaggtgc ccaggtcttt catcaagagc cccatttcca agtgctcagt 60
W--> 142 anccccttt ggccagtgcn cccccaccac atgggacaag cgcaggtcca gtggcctccc 120
    143 cagctgaccg caggcaggga acaaggcaga ccctagaggg ccaggccaca gcaggggctg 180
    144 aggatgcctg gtgaatggat gcctgggaga atggatgcca gaattcacgc atgaggctct 240
    145 gaacagggct gggaaaactt ccaaacgaag ggaagctcat gtcttggtgc actttgtgat 300
    146 gatgcttcaa cagcaggact gagatgggga catttacaat aaacagaaat gtatgggctc 360
    147 g                                                                361
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    151 <212> TYPE: DNA
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    154 <220> FEATURE:
    155 <223> OTHER INFORMATION: Jurkat cell cDNA
    157 <400> SEQUENCE: 8
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    159 tcaggtcgtg cttgttagta ctatatcacc aagtccattc atttaatgat ccaaaactgt 120
    160 aatgttgcac tgtattccaa ataaagggta aaaacagaac caaagttata actccg     176
    162 <210> SEQ ID NO: 9
    163 <211> LENGTH: 128
    164 <212> TYPE: DNA
    165 <213> ORGANISM: Homo sapiens
    167 <220> FEATURE:
    168 <221> NAME/KEY: unsure
    169 <222> LOCATION: (57), (58)
    170 <223> OTHER INFORMATION: n = a or c or g or t
    172 <220> FEATURE:
    173 <223> OTHER INFORMATION: Jurkat cell cDNA
    175 <400> SEQUENCE: 9
W--> 176 gatcaattct atgtctgact ttgaaattcc atttacaatg tagtatgttt tcaatgnnaa 60
    177 accataaagt aacatccaag tgtttcatgg tttgttggga aggtaatttt aaaataaaac 120
    178 aatttccg                                                         128
    180 <210> SEQ ID NO: 10
    181 <211> LENGTH: 138
    182 <212> TYPE: DNA
    183 <213> ORGANISM: Homo sapiens
    185 <220> FEATURE:
    186 <223> OTHER INFORMATION: Jurkat cell cDNA
    188 <400> SEQUENCE: 10
    189 gatcaagtca ctgcatgttg agaagtatag gtataacttg tgaccatatc acagctcctt 60
    190 tatttatgta gtttcttcac attttatgtg tacaatcaag catgcctgct gaccaaggcc 120
    191 agaggtggag tggaagcg                                               138
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    193 <210> SEQ ID NO: 11
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    196 <213> ORGANISM: Homo sapiens
    198 <220> FEATURE:
    199 <223> OTHER INFORMATION: Jurkat cell cDNA
    201 <400> SEQUENCE: 11
    202 gatctcaaca ttgttggttt cttttgtttt tcatttggta caactttctt gaatttagaa 60
    203 attacatctt tgcagttctg ttaggtgctc tgtaattaac ctgacttata tgtgaacaat 120
    204 tttcatgaga cagtcatttt taactaatga agtgattctt tctcactact atctgtattg 180
    205 tggaatgcac aaaattgtgt aggtgctgaa tgctgtaagg agtttaggtt gtatgaattc 240
    206 tacaaccta taataaattt tactctatac g                              271
    208 <210> SEQ ID NO: 12
    209 <211> LENGTH: 186
    210 <212> TYPE: DNA
    211 <213> ORGANISM: Homo sapiens
    213 <220> FEATURE:
    214 <221> NAME/KEY: unsure
    215 <222> LOCATION: (20), (115)
    216 <223> OTHER INFORMATION: n = a or c or g or t
    218 <220> FEATURE:
    219 <223> OTHER INFORMATION: Jurkat cell cDNA
    221 <400> SEQUENCE: 12
W--> 222 gatccaaaac tatttgggan atgtatgggt agggtaaatc agtaagaggt gttatttgga 60
W--> 223 accttgtttt ggacagttta ccagttgcct tttatcccaa agttgttgta acctnctgtg 120
    224 atacgatgct tcaagagaaa atgcggttat aaaaaatggt tcagaattaa acttctaatt 180
    225 cattcg                                                       186
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    228 <211> LENGTH: 171
    229 <212> TYPE: DNA
    230 <213> ORGANISM: Homo sapiens
    232 <220> FEATURE:
    233 <223> OTHER INFORMATION: Jurkat cell cDNA
    235 <400> SEQUENCE: 13
    236 ggatctgacc tccacggagc cgctgtcccc gcccccctgc tcccgtctgt ctgtcctgtc 60
    237 tgattctctt aggtgtcatg ttctttttc tgtcttgtct tcaacttttt ttaaaactag 120
    238 attgctttga aaacatgact caataaaagt ttcctttcaa tttaaacacc g         171
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    241 <211> LENGTH: 151
    242 <212> TYPE: DNA
    243 <213> ORGANISM: Homo sapiens
    245 <220> FEATURE:
    246 <223> OTHER INFORMATION: T lymphocyte cDNA
    248 <400> SEQUENCE: 14
    249 agctccagaa gcgcttggac aggctggagg agacagtcca ggccaagtag agccccacag 60
    250 ggcctccagc agggtcagcc attcacaccc atccactcac ctcccattcc cagccacgtg 120
    251 gcagagaaaa aaatcataat aaaatggctt t                            151
    253 <210> SEQ ID NO: 15
    254 <211> LENGTH: 148
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    256 <213> ORGANISM: Homo sapiens
    258 <220> FEATURE:
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    260 <222> LOCATION: (3), (4), (13), (30), (40)
    261 <223> OTHER INFORMATION: n = a or c or g or t
    263 <220> FEATURE:
    264 <223> OTHER INFORMATION: T lymphocyte cDNA
    266 <400> SEQUENCE: 15
W--> 267 ttnngctacc tgngtccaag tcttggcttn ccctttccan tcacttcact gtgcgctaag 60
    268 gggtggggtg aggggatgga gagggagggc tgcctaccat ggtctggggc ttgaggaaga 120
    269 tgagtttgtt gatttaaata aagaattt                                   148
    271 <210> SEQ ID NO: 16
    272 <211> LENGTH: 194
    273 <212> TYPE: DNA
    274 <213> ORGANISM: Homo sapiens
    276 <220> FEATURE:
    277 <221> NAME/KEY: unsure
    278 <222> LOCATION: (4), (19), (21)
    279 <223> OTHER INFORMATION: n = a or c or g or t
    281 <220> FEATURE:
    282 <223> OTHER INFORMATION: T lymphocyte cDNA
    284 <400> SEQUENCE: 16
W--> 285 ctantttaga tacgtccana nccaggaccg ctgagaactg ggacagtttc ctgggatgag 60
    286 tgccagcctg agcctgcatg gtgccgccga gcccggggtg gaggagggag ccaggcttcg 120
    287 cttcaaggcg gcctctacct tttctcagaa tggtttcctg attgtgtcaa tgtgaaagtt 180
    288 aaataaaatt tatg                                                   194
    290 <210> SEQ ID NO: 17
    291 <211> LENGTH: 116
    292 <212> TYPE: DNA
    293 <213> ORGANISM: Homo sapiens
    295 <220> FEATURE:
    296 <221> NAME/KEY: unsure
    297 <222> LOCATION: (7)..(9), (18), (22), (24), (28), (29), (31), (33), (42), (44),
    298 <222> LOCATION: (46), (47), (52), (55), (58), (63), (69), (75), (78), (79)
    299 <223> OTHER INFORMATION: n = a or c or g or t
    301 <220> FEATURE:
    302 <223> OTHER INFORMATION: T lymphocyte cDNA
    304 <400> SEQUENCE: 17
W--> 305 cactgtnnng aacggtcntg cnangtanna ngncttctgc cnangnntct cnctncancc 60
W--> 306 aanaggcanc tttcntannt atcctaacaa gccttggacc aaatggaaat aacagc      116
    308 <210> SEQ ID NO: 18
    309 <211> LENGTH: 212
    310 <212> TYPE: DNA
    311 <213> ORGANISM: Homo sapiens
    313 <220> FEATURE:
    314 <223> OTHER INFORMATION: T lymphocyte cDNA
    316 <400> SEQUENCE: 18
    317 gctttattgg agagatacac acaaaggctg tccactcact tccataattt cttgatggac 60
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VERIFICATION SUMMARY   DATE: 04/19/2001
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Input Set : **N:\Crf3\RULE60\09674607.txt**
Output Set: **N:\CRF3\04192001\I674607.raw**

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L:89  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:109 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:110 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:111 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:142 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:176 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:222 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:223 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:267 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:285 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:305 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
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L:350 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:384 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22
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L:451 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
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L:591 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33
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L:611 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34
L:612 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34
L:733 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44
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